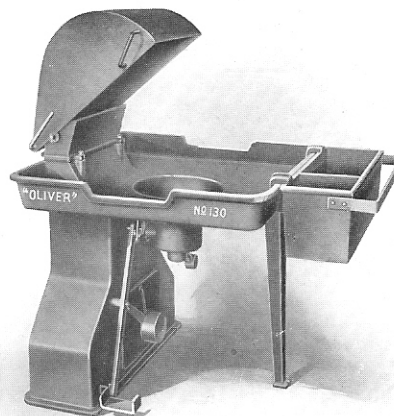


"OLIVER" FORGES



"Oliver" No. 130
Improved Down Draft Forge

"The Engineering Features"

connected with the "layout" for a forge equipment should be entrusted only to an expert along this line.

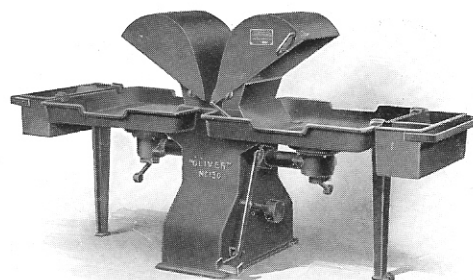
The arrangement of underground conduits for air pressure and carrying away the gases—

The selection of pressure blower and exhaust fan—

The location of the motor, and whether to have them direct connected or belt driven—

Are all of such vital importance and so necessary to successful operation, that the Oliver Machinery Co. makes a specialty of the above. Our engineering talent along these lines is second to none. We solicit the opportunity to make drawings to fit any room you now have or may want—

To select the blowers, fans, motors, etc., and tell how much it would cost.

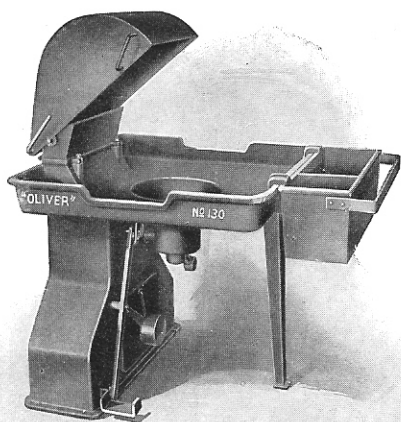


"Oliver" No. 130-A
Improved Double Down Draft Forge

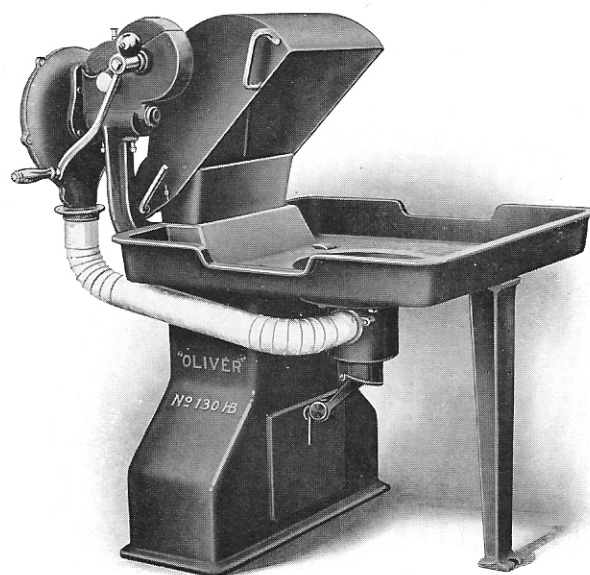
OLIVER MACHINERY CO.
GRAND RAPIDS, MICH., U. S. A.

Branch Offices:

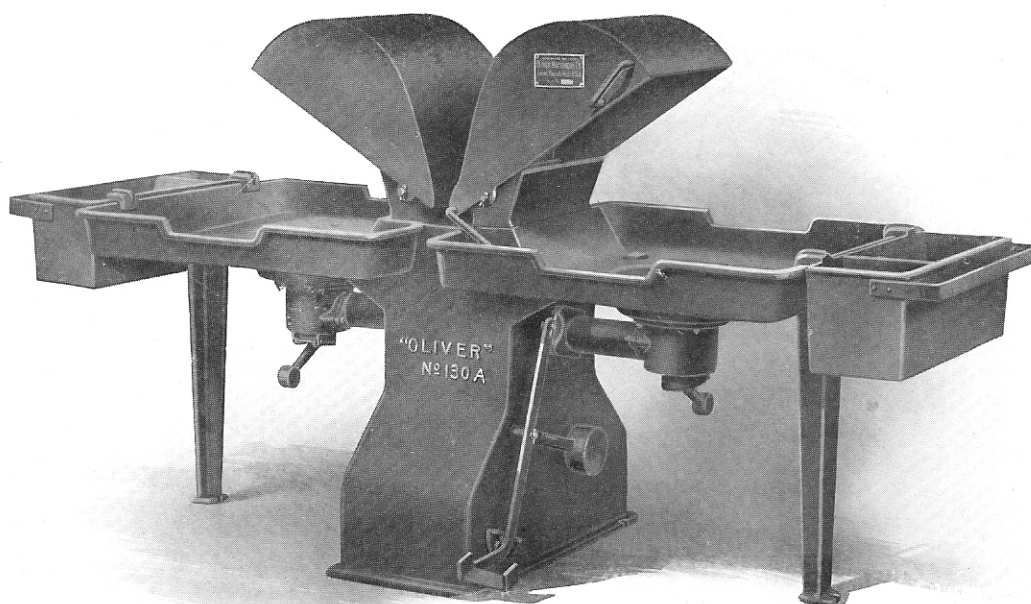
New York	--	Chicago	--	St. Louis
Los Angeles				Manchester, Eng.



"Oliver" No. 130 Improved Down Draft Forge



"Oliver" No. 130-HB Down Draft Forge



"Oliver" No. 130-A Down Draft Forge

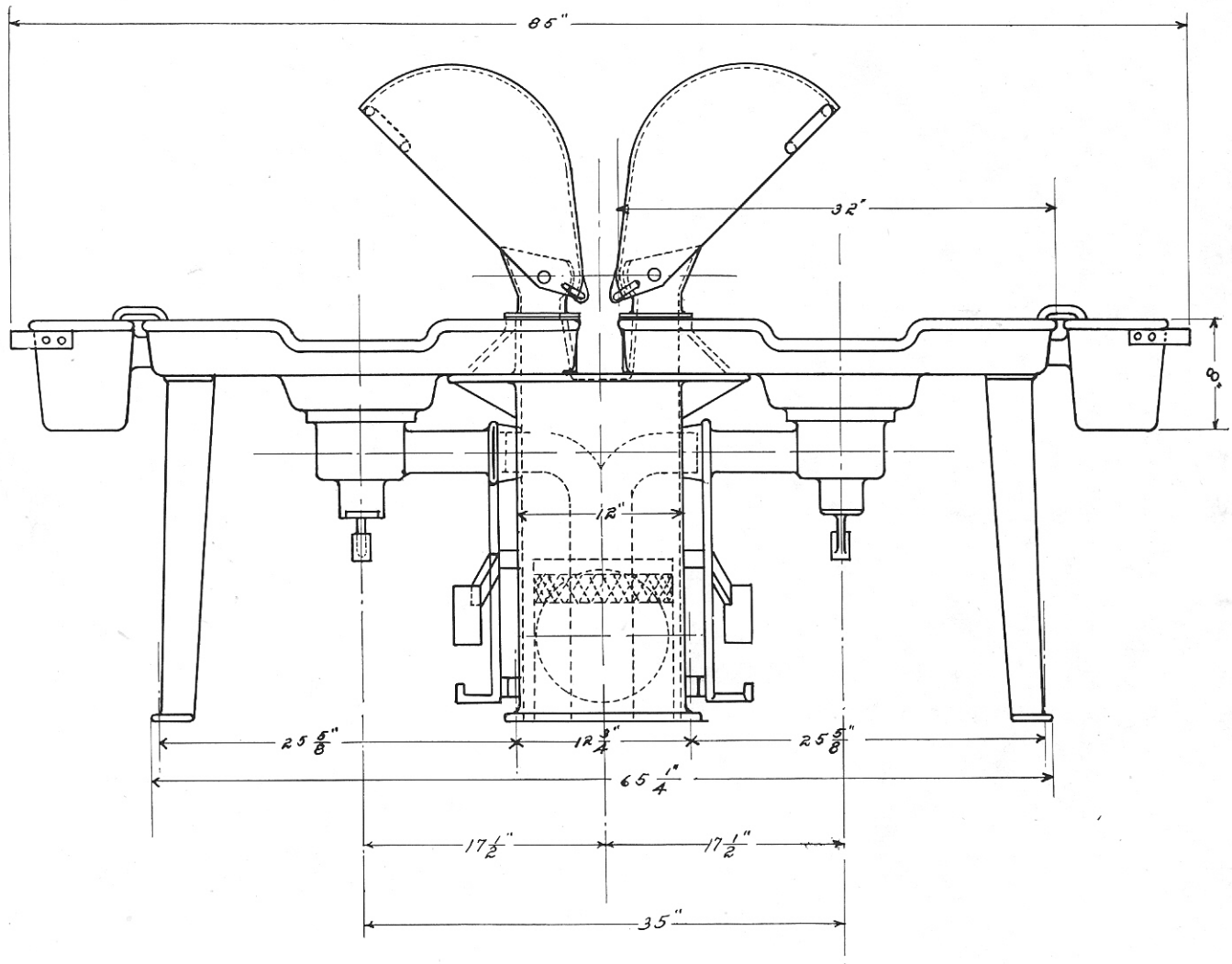
This etching illustrates not only the general outline but also suggests the simplicity of design and construction. Its "get-at-able-ness" stands for something worth having. No place about it to hide ashes and dirt.

"Oliver" No. 130 and 130-A Forges

- Forge Pan** Forge Pan is heavy cast iron, 32" square, 29" from floor. Fitted with cast iron combined water tank and coal box. Supported by one iron leg and a pedestal.
- Pedestal** Pedestal is massive cast iron in the cored form. Placed over underground openings. Encases all exhaust and blower connections. Door on inner side of pedestal provides easy access for regulating volume damper, connecting blast pipe, or cleaning out any clinkers which may drop down through exhaust hood.
- Down Draft Hood** Down Draft Hood is cast iron, made heavy to withstand heat and prevent warping. It consists of one adjustable hood held by substantial locking device.
- Exhaust** Exhaust is drawn through down draft hood into the hollow pedestal, thence through a conically shaped $\frac{1}{4}$ " mesh wire screen into a 7" galvanized iron exhaust pipe which has volume damper and leads to exhaust duct.
- Blast Pipe** Blast Pipe is galvanized iron 3" diameter. Is encased by the pedestal. Connects with tuyere through a simple valve, with which the blast is easily regulated. Has foot treadle blast control; self closing.
- Tuyere** Tuyere is cast iron. Has large air chamber arranged with self-closing clinker dumping device operated by a counterweight. Tuyere cover, of cast iron, is made removable and has suitable openings for allowing a uniform volume of air to blow the fire.
- Equipment** Equipment consists of forge complete as described above.
- Floor Space** Floor Space of No. 130 and No. 130-A is 30" x 30½" and 30" x 85" on floor, 32" x 41½" maximum.
- Weight** No. 130 Forge, crated for shipment, weighs, 625 lbs.
No. 130-A Forge, crated for shipment, weighs 1095 lbs.

"Oliver" No. 130-HB Forge

- Hand Blower** This style forge is exactly the same as our No. 130 Single Down Draft Forge, except that it is equipped with a ball bearing hand blower mounted on cast iron bracket attached to forge column. Blast gate and foot treadle control are not furnished on this type forge.
- Weight** No. 130-HB, crated for shipment weighs 650 lbs.



Detailed Outline of "Oliver" No. 130-A Double Down Draft Forge

Special attention is called to the above etching. It shows the pipe connections totally enclosed. Volume damper for exhaust is mounted inside the column where it will not be interfered with. Screen in pipe prevents clinkers from being drawn into the underground piping.